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R & D Lab.*

Chief, Research and Development Branch

11 December 1956

Chief, Research and Development Laboratory

Radiation Detection Equipment, Project 2520, (Intermediate Report)

1. The forty-nine radiation detectors (submitted by Headquarters) have been examined and placed in operating condition with the following exceptions:

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- (a) Eight Thyac type 389 detectors require replacement of tubes and/or component parts. The remainder (16) have been completed.
- (b) Ten Radiac type SULE detectors need filament batteries and four of them need calibration.
- (c) Seven Radiac type SU-6 detectors need calibration.
- (d) Operation and maintenance instructions for the Radiac Laboratory Counter type SU3B have not been received.

2. The primary difficulties encountered are listed below.

- | | |
|--|------|
| (a) Bad tubes | 20% |
| (b) Broken wires | 20% |
| (c) Cold solder joints | 3% |
| (d) Defective Components | 35% |
| (e) Dirty contacts | 10% |
| (f) Miscellaneous | 12% |
| (g) Battery replacements needed
(some batteries have been received) | 100% |

3. Components and/or complete sets of batteries for each unit needing them have not yet been received.

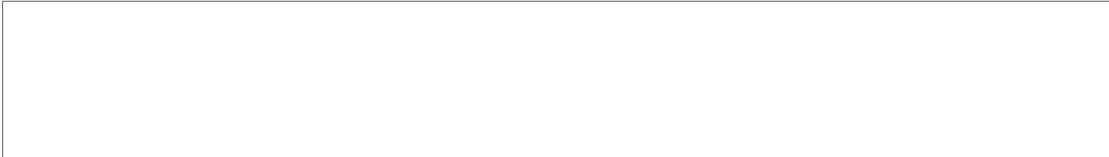
4. A radioactive source is needed of sufficient strength to calibrate the Radiac types SULE, SU-6 and SU-10 detectors. (See paragraph 1, (b) and (c). The sources on hand are sufficient to calibrate the Thyac type 389, but not Radiac types SULE, SU-6 and SU-10.

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5. This project has required 113 man hours to date.



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7. Work on this project is temporarily suspended pending receipt of a calibrating source, information on the Radiac Laboratory Counter type SU3B and the necessary components to complete this project. It is estimated that approximately 40 more man hours must be spent to complete the project.

John
Lab/JMM/rkb (11 December 1956)



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Distribution:

- Original and 1 - Addressee
- 1 - R&D Lab✓
- 1 - R&D Chrono
- 1 - Dev/s
- 1 - OC-E
- 1 - OC-E Chrono

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